

Amendments to the Claims

Claims 1-11 (canceled).

12. (new) A method of making a white light source, comprising: encapsulating a light-emitting diode in an epoxy resin having a phosphor dispersed therein, the light emitting diode having an emission from 420 to 490 nm, and the phosphor having a garnet structure as represented by  $A_3B_5O_{12}:Ce$  wherein A is terbium or terbium together with at least one of the elements Y, Gd, La, and/or Lu and B is at least one of the elements Al and Ga, the phosphor converting at least a part of the emission from the light-emitting diode into a longer-wave radiation.

13. (new) The method of claim 12 wherein A is solely or predominately terbium.

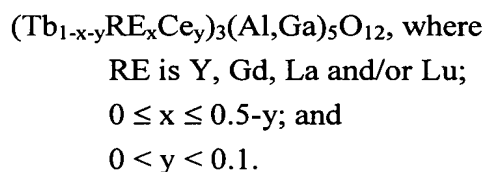
14. (new) The method of claim 12 wherein the light-emitting diode has an emission from 430 to 470 nm.

15. (new) The method of claim 13 wherein the light-emitting diode has an emission from 430 to 470 nm.

16. (new) The method of claim 12 wherein B additionally contains In.

17. (new) The method of claim 12 wherein the light-emitting diode is based on Ga(In)N.

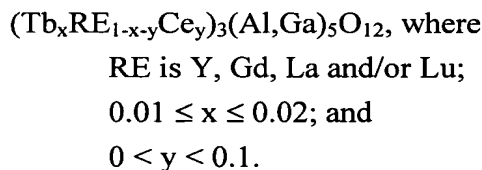
18. (new) A method of making a white light source, comprising: encapsulating a light-emitting diode in an epoxy resin having a phosphor dispersed therein, the light emitting diode having an emission from 420 to 490 nm, the phosphor converting at least a portion of the emission from the light-emitting diode into a longer-wave radiation and having a garnet structure represented by



19. (new) The method of claim 18 wherein x is in the range  $0.25 \leq x \leq 0.5-y$ .

20. (new) The method of claim 18 wherein y is in the range  $0.02 < y < 0.06$ .

21. (new) The method of claim 18 wherein  $x$  is in the range  $0.25 \leq x \leq 0.5 - y$  and  $y$  is in the range  $0.02 < y < 0.06$ .
22. (new) The method of claim 18 wherein the light source has a color temperature of below 5000 K.
23. (new) The method of claim 18 wherein the light source has a color temperature of 4500 K.
24. (new) The method of claim 12 wherein the phosphor contains from 0.03 to less than 3 moles of terbium per mole of phosphor.
25. (new) The method of claim 18 wherein the light-emitting diode is based on Ga(In)N.
26. (new) A method of making a white light source, comprising: encapsulating a light-emitting diode in an epoxy resin having a phosphor dispersed therein, the light emitting diode having an emission from 420 to 490 nm, the phosphor converting at least a portion of the emission from the light-emitting diode into a longer-wave radiation, the phosphor having a garnet structure represented by



27. (new) The method of claim 26 wherein  $x$  is 0.01.
28. (new) The method of claim 26 wherein  $y$  is in the range  $0.01 \leq y \leq 0.05$ .
29. (new) The method of claim 27 wherein  $y$  is in the range  $0.01 \leq y \leq 0.05$ .
30. (new) The method of claim 27 wherein the phosphor has a garnet structure represented by  $(\text{Y}_{0.50}, \text{Gd}_{0.45}\text{Tb}_{0.01}\text{Ce}_{0.04})_3\text{Al}_5\text{O}_{12}$ .
31. (new) The method of claim 26 wherein the light-emitting diode is based on Ga(In)N.